

ABSTRACT

Disclosed is a DBF radar apparatus comprising: an antenna for radiating a transmit signal; a plurality of  
5 antennas for receiving the transmit signal reflected from an object; a first selector switch section for sequentially selecting output terminals of the plurality of antennas one at a time for connection to an input terminal by performing switching with a first period; a  
10 first downconverting section for downconverting, by using a portion of the transmit signal, a received signal input from each antenna; a low-frequency cut-off filter connected to an output of the first downconverting section; a second selector switch section for connecting  
15 an output of the low-frequency cut-off filter to a sequentially selected one of a plurality of A/D converters; and a digital signal processing section for receiving outputs of the plurality of A/D converters, and for applying prescribed processing to the outputs to  
20 detect the distance to the object or the relative velocity with respect to the object, wherein, when each antenna is connected to the input terminal, the first selector switch performs on-off control with a second period shorter than the first period.